Biological Psychiatry

A Journal of Psychiatric Research

Contents

Volume 26, Number 1, May 1989

1 EDITORIAL Remedial Life-Styles

ARTICLES

3 Beta-Endorphin and Components of Emotionality Discriminate Between Physically Active and Sedentary Men
Dennis D. Lobstein, A.H. Ismail, and Charles L. Rasmussen

15 Lymphocyte Beta-Adrenoreceptor Density in Patients with Unipolar Depression and Normal Controls
Joseph R. Magliozzi, Dorothy Gietzen, Richard J. Maddock, Deanna Haack, Allen R. Doran, Theodore Goodman, and Philip G. Weiler

26 Differential Sensitivity to Dexamethasone Suppression in an Animal Model of the DST
Scott Lurie, Cynthia Kuhn, Jorge Bartolome, and Saul Schanberg

35 Clinical, Psychophysiological, and Neurological Characteristics of Volunteers with Impaired Smooth Pursuit Eye Movements
Larry J. Siever, Robert D. Coursey, Ina S. Alterman, Ted Zahn, Leslie Brody, Peter Bernad, Monte Buchsbaum, C. Raymond Lake, and Dennis L. Murphy

52 Platelet ^{3}H-Clonidine and ^{3}H-Imipramine Binding and Plasma Cortisol Level in Depression
Toshihiko Takeda, Toshiki Harada, and Saburo Otsuki

61 Reduced REM Latency Predicts Response to Tricyclic Medication in Depressed Outpatients
A. John Rush, Donna E. Giles, Robin B. Jarrett, Frida Feldman-Koffler, John R. Debus, Jan Weissenburger, Paul J. Orsulak, and Howard P. Roffwarg

73 Abnormalities in the Response of Plasma Arginine Vasopressin During Hypertonic Saline Infusion in Patients with Eating Disorders
J. Ken Nishita, Everett H. Ellinwood, Jr., W.J. Kenneth Rockwell, Cynthia M. Kuhn, Graham W. Hoffman, Jr., W. Vaughn McCall, and Jothika N. Manepalli

87 Free and Conjugated Plasma Homovanillic Acid in Schizophrenic Patients
Antonio Garcia, André Galinowski, Pascale Guicheney, Emmanuel Mignot, Henri Loo, and Philippe Meyer

97 CASE REPORT
The Development of Dependence to an Octapeptide Somatostatin Analog: Contribution to the Study of Somatostatin Analgesia
Vladimir R. Paunović and Vera Popović

102 BRIEF REPORTS
Effect of the 5-HT_2 Antagonist Ketanserin on the ECT-Induced Prolactin Release
Athanasios P. Zis, Husseini K. Manji, Ronald A. Remick, B.E. Kelly Grant, Campbell M. Clark

106 Behavioral and Biochemical Effects of Intanigral Injection of Phospholipase-A_2
Jean Lud Cadet, Michele He, and Vernice Jackson-Lewis

hydroxylase, lithium inhibition of, 206
seasonal changes of plasma, 695
Tuberoinfundibular dopamine function
chronic neuroleptic administration effect on, 131
serum prolactin as indicator of, 225
Tumors
cerebral, secondary dystonia and, 199
ethylnitrosourea-induced, chronic stress effect on, 690
Twin studies
imipramine binding and, 479
smooth pursuit eye movement impairment and, 36
Tyrosine hydroxylase
tetrahydrobiopterin as required cofactor for, 156

Urine
sulfoconjugated homovanillic acid in, 88

Valium. *See* Diazepam
Vasopressin
plasma arginine, response of to intravenous hypertonic saline in eating disorders, 73
as stress-responsive neuromodulator, 222-ed
Ventricle-to-brain ratio
in depression, 565
as index based on area ratio, 748
positive correlation between postdexamethasone cortisol concentrations and, 729
in schizophrenia, 756
Ventricular enlargement
in anorexia nervosa, 321
in major depression, 729
Visual evoked potential testing
role of in impaired smooth pursuit eye movement testing, 35
Vitamin B_{12}
levels, relationship of to depression, 157, 210-le
Vitamin C
levels, relationship of to depression, 210-le
Vitamin D
metabolism, lithium effect on, 206

Water dysregulation
in schizophrenia, 775
Weight
effect of lithium and neuroleptic combination on, 139
Wernicke/Korsakoff syndrome
excitotoxins and, 516 (review)
Wilson's disease
secondary dystonia and, 199

X chromosome
markers on, gene involved in bipolar affective illness linked to, 164
^{133}Xe intracarotid injection method
as two-dimensional cerebral blood flow measurement technique, 717
Xg blood group
linkage analysis and, 164

Yohimbine
blockade with, nonrepinephrine release and, 413

Zimelidine
platelet ^{3}H-imipramine binding and, 479
Zinc
metabolism, in mood disorders, 646

Volume 26, Number 2, June 1989

111 EDITORIAL The Voice of Memnon

ARTICLES

113 A.E. Bennett Award Paper: Muscarinic Receptor Subclassification and G-Proteins: Significance for Lithium Action in Affective Disorders and for the Treatment of the Extrapyramidal Side Effects of Neuroleptics
Sofia Avissar and Gabriel Schreiber

131 Effect of Neuroleptic Withdrawal on Plasma Prolactin: A Possible Marker of Receptor Adaptation
Brian Kirkpatrick, Robert W. Buchanan, Kiyoshi Maeda, William T. Carpenter, Jr., Diana Jauch, and Carol A. Tamminga

139 Effect of Lithium and Neuroleptic Combination on Lithium Transport, Blood Pressure, and Weight in Bipolar Patients
A. Missagh Ghadirian, N. P. Vasavan Nair, and George Schwartz

145 Mitogen-Stimulated Lymphocyte Proliferation and Pituitary Hormones in Major Depression
Denis F. Darko, J. Christian Gillin, S. Craig Risch, Karen Bulloch, Shahrokh Golshan, Zana Tasevska, and Robert N. Hamburger

156 Plasma Levels of Tetrahydrobiopterin and Folate in Major Depression
Suzanne Knapp and Michael Irwin

163 Linkage Analysis of Depression Spectrum Disease
A. F. Wilson, V. L. Tanna, G. Winokur, R. C. Elston, and E. M. Hill

176 CSF Norepinephrine in Schizophrenia Is Elevated Prior to Relapse After Haloperidol Withdrawal
Daniel P. van Kammen, Jeffrey Peters, Welmoet B. van Kammen, Ann Nugent, Kenneth L. Goetz, Jeffrey Yao, and Markku Linnoila

189 Animal Models of Compulsive Behavior
Roger K. Pitman

CASE REPORT

199 Failure of Clonidine in Tardive Dystonia: Implications for Nosology
Adityanjee, Suarn Singh, and M. Subramaniam

BRIEF REPORTS

203 Endocrine Responses to 5-Hydroxytryptamine-1A Receptor Activation by Ipsapirone in Humans
Klaus-Peter Lesch, Rainer Rupprecht, Bettina Poten, Ulrich Müller, Karin Söhnle, Jürgen Fritze, and Heinrich M. Schulte

206 The Effect of Lithium on Vitamin D Metabolism
Seymour Rosenblatt, Jacob D. Chanley, and Robert Lloyd Segal

CORRESPONDENCE

209 Suicidality and Corticosteroid-Induced Psychosis; Depression in the Aged: Relation to Folate and Vitamins C and B_{12}; Melanocyte-Stimulating Hormone in Tardive Dyskinesia; More on Prediction of Lithium Levels or Concentrations; Response; In Memory of Max Hamilton; R-R Interval During Neuroleptic Treatment

Volume 26, Number 3, July 1989

221 EDITORIAL Post-Traumatic Stress Disorder, Hormones, and Memory

ARTICLES

224 The Effect of Neuroleptic Discontinuation on Psychopathology, Involuntary Movements, and Biochemical Measures in Patients with Persistent Tardive Dyskinesia
William M. Glazer, Malcolm B. Bowers, Jr., Dennis S. Charney, George R. Heninger

234 Electroconvulsive Therapy in Neuroleptic-Induced Parkinsonism
Utpal Goswami, Sunil Dutta, K. Kuruvilla, Eva Papp, and Andras Perenyi

239 Pharmacodynamics and Pharmacokinetics of Haloperidol and Reduced Haloperidol in Schizophrenic Patients
Wen-Ho Chang, Shih-Ku Lin, Michael W. Jann, Y. W. Francis Lam, Teng-Yi Chen, Chao-Tsao Chen, Wei-Herng Hu, and Eng-Kung Yeh

250 Rapid Cycling Affective Disorders in the Mentally Retarded
Paul Glue

257 CSF Prostaglandin-E in Agoraphobia with Panic Attacks
Raymond F. Anton, James C. Ballenger, R. Bruce Lydiard, Michele T. Laraia, Elizabeth F. Howell, and Philip W. Gold

265 Multiple Hormone Responses to Clonidine Administration in Depressed Patients and Healthy Volunteers
Jay D. Amsterdam, Greg Maislin, Brett Skolnick, Neil Berwish, and Andrew Winokur

279 Effects of GTP on Hormone-Stimulated Adenylate Cyclase Activity in Cerebral Cortex, Striatum, and Hippocampus from Rats Treated Chronically with Lithium
Arne Mørk and Arne Geisler

289 Urinary Basal Body Temperature in Anorexia Nervosa
Jeffrey M. Jonas, Joel Ehrenkranz, and Mark S. Gold

297 Hallucinogenic Drugs Are Partial Agonists of the Human Platelet Shape Change Response: A Physiological Model of the 5-HT_2 Receptor
Steven J. McClue, Celia Brazell, and Stephen M. Stahl

COMMENT

303 A Mechanism for the Involvement of Colocalized Neuropeptides in the Actions of Antipsychotic Drugs
R. F. Gariano and P. M. Groves

CASE REPORT

315 Depersonalization Disorder: Effects of Caffeine and Response to Pharmacotherapy
Murray B. Stein and Thomas W. Uhde

BRIEF REPORTS

321 Cerebral Atrophy in Anorexia Nervosa: A Pilot Study
Graham W. Hoffman, Jr., E. H. Ellinwood, Jr., W. J. Kenneth Rockwell, Robert J. Herfkens, J. Ken Nishita, and Linda F. Guthrie

325 Effects of Carbamazepine on Sleep in Healthy Volunteers
J. D. Yang, M. Elphick, A. L. Sharpley, and P. J. Cowen

Volume 26, Number 4, August 1989

329 EDITORIAL GHB—New Hope for Narcoleptics?

ARTICLES

331 Efficacy of Gamma-Hydroxybutyrate versus Placebo in Treating Narcolepsy–Cataplexy: Double-Blind Subjective Measures
Lawrence Scrima, Paul G. Hartman, Frank H. Johnson, Jr., and F. Charles Hiller

344 Neuroendocrine Effects of Ovine Corticotropin-Releasing Hormone in Panic Disorder Patients
Mark Hyman Rapaport, S. Craig Risch, Shahrokh Golshan, and J. Christian Gillin

349 The Corticotropin-Releasing Hormone Test in Patients with Posttraumatic Stress Disorder
Mark A. Smith, Jonathan Davidson, James C. Ritchie, Harold Kudler, Stephen Lipper, Phillip Chappell, and Charles B. Nemeroff

356 Clinical Ratings and Plasma HVA During Cocaine Abstinence
Steven D. Martin, Vikram K. Yeragani, Rashid Lodhi, and Mathew P. Galloway

363 Chronic Flupentixol Treatment Potentiates the Reinforcing Properties of Systemic Heroin Administration
Luis Stinus, Dominique Nadaud, Jean-Marie Deminière, Joseba Jauregui, Timothy T. Hand, and Michel Le Moal

372 Evoked Potential Variation in Schizophrenic Subgroups
Christopher Kessler and Alan Steinberg

381 Clinical Response and Plasma Haloperidol Levels in Chronic and Subchronic Schizophrenia
Jose L. Santos, Jose A. Cabranes, Carmelo Vazquez, Filberto Fuentenebro, Isabel Almoguera, and Jose A. Ramos

389 Growth Hormone Responses to Growth Hormone Releasing Factor in Primary Degenerative Dementia
Roger Thomas, Peter Williams, Rhys John, and Maurice Scanlon

397 Circumventricular Organs in Chronic Serum Sickness: A Model for Cerebral Lupus
Nancy S. Peress, Edward Perillo, and Joseph D. Fenstermacher

BRIEF REPORTS

408 Acute and Subacute Effects of ECT on Plasma HVA, MHPG, and Prolactin
D. P. Devanand, Malcolm B. Bowers, Jr., Frederick J. Hoffman, Jr., and Harold A. Sackeim

412 Effect of Idazoxan on Evening Melatonin Plasma Concentrations in Healthy Volunteers
Paul M. Grasby, Evan J. Begg, Sarah E. Gartside, and Philip J. Cowen

416 Bright Light Blocks Amitriptyline-Induced Cholinocepter Supersensitivity
Steven C. Dilsaver, Mark J. Majchrzak, and Duane Flemmer

424 Gonadotropin Response to LRH in Anorexia Nervosa and Bulimia
Alan B. Levy, Katharine N. Dixon, and William B. Malarkey

427 Decreased Interleuken-2 Production in Schizophrenic Patients
Rohan Ganguli, Bruce S. Rabin, and Steven H. Belle

CORRESPONDENCE

431 Animal Models: Promise and Pitfalls; Response; Platelet Serotonin Response to Treatment in Geriatric Depression

Volume 26, Number 5, September 1989

437 EDITORIAL Rehabilitative Psychiatry

ARTICLES

438 A. E. Bennett Award Paper: Experimental Approaches to Human Stress Research: Assessment of Neurobiological Mechanisms of Stress in Volunteers and Psychiatric Patients
Alan Breier

463 Biological Correlates of Lactate Sensitivity in Panic Disorder
Thomas A. Aronson, Irene Carasiti, Deborah McBane, and Patricia Whitaker-Azmitia

478 Changes in Platelet ^{3}H-Imipramine Binding with Chronic Imipramine Treatment Are Not State-Dependent
Edward M. DeMet, Robert H. Gerner, Kate M. Bell, Curtis D. Kauffmann, Aleksandra Chicz-DeMet, and Stacey Warren

489 Seasonal Rhythm of Platelet ^{3}H-Imipramine Binding in Normal Controls
Edward M. DeMet, Aleksandra Chicz-DeMet, and James Fleischmann

496 Elevated Sleep and Waking Heart Rates in Anxious Depressions
Lauren Abramson, Matcheri S. Keshavan, and Natraj Sitaram

500 CSF Corticotropin-Releasing Factor (CRF) in Alzheimer's Disease: Its Relationship to Severity of Dementia and Monoamine Metabolites
Nunzio Pomara, Rajkumar R. Singh, Dennis Deptula, Peter A. LeWitt, Garth Bissette, Michael Stanley, and Charles B. Nemeroff

REVIEW

505 Excitatory Amino Acids and Neuropsychiatric Disorders
John W. Olney

BRIEF REPORTS

526 Bereitschaftspotential in Melancholic Depression
Sumant Khanna, C. R. Mukundan, and S. M. Channabasavanna

530 Dexamethasone Suppression Test in Helpless Rats
Lawrence Greenberg, Emmeline Edwards, and Fritz A. Henn

533 Erythrocyte Membrane Na-K ATPase Activity in Affective Disorder
P. Lakshmi Reddy, Sumant Khanna, M. N. Subhash, S. M. Channabasavanna, and B. S. S. R. Rao

537 Characteristics of the In Vivo RBC: Plasma Lithium Ratio in a Clinical Setting
William G. Ryan, James M. Richards, and Jeanette Y. Lee

541 The Prevalence of Periodic Limb Movements During Sleep in Men with Erectile Dysfunction
Max Hirshkowitz, Ismet Karacan, Murat O. Arcasoy, Guven Acik, and Robert L. Williams

Volume 26, Number 6, October 1989

EDITORIALS

545 The National Institute of Mental Health: Prospects and Promises

547 Comment on "The National Institute of Mental Health: Prospects and Promises"

ARTICLES

551 Chronicity and Relapse in Geriatric Depression
George S. Alexopoulos, Robert C. Young, Robert C. Abrams, Barnett Meyers, and Charles A. Shamoian

565 Relationships Between Brain CT Scan Findings and Cortisol in Psychotic and Nonpsychotic Depressed Patients
Anthony J. Rothschild, Francine Benes, Nancy Hebben, Bryan Woods, Monica Luciana, Erin Bakanas, Jacqueline A. Samson, and Alan F. Schatzberg

576 ADH Secretion in Schizophrenic Patients on Antipsychotic Drugs
Masakuza Sarai and Hidenori Matsunaga

581 Lymphocyte Subpopulations in Depressed Elderly Women
Steven D. Targum, Lois E. Marshall, Paul Fischman, and David Martin

590 Multiinfarct and Alzheimer-Type Dementia Investigated by Transcranial Doppler Sonography
Hans Foerstl, Stefan Biedert, and Walter Hewer

595 EEG and Brainstem Auditory Evoked Response Potentials in Adult Male Drug Abusers with Self-Reported Histories of Aggressive Behavior
Diane H. Fishbein, Ronald I. Herning, Wallace B. Pickworth, Charles A. Haertzen, John E. Hickey, and Jerome H. Jaffe

612 Behavioral Biochemical and Neuroendocrine Concomitants of Lactate-Induced Panic Anxiety
Johan A. Den Boer, Herman G. M. Westenberg, André A. Klompmakers, and Lia E. M. van Lint

623 Intravenous Physostigmine Increases Cerebrospinal Fluid Neuropeptide-Y
Wade H. Berrettini, Nancy A. Garrick, John I. Nurnberger, Jr., Susan Simmons-Alling, Joel Gelernter, Phillip W. Gold, David R. Rubinow, and Dennis L. Murphy

CASE REPORT

631 Salbutamol Psychosis
Andrew M. Whitehouse and Steven Novosel

BRIEF REPORTS

634 The Effect of Oral Dextroamphetamine on Plasma Cortisol in Major Depressive Disorder
E. D. Myers

637 Treatment of Cocaine Abuse with Buprenorphine
Thomas R. Kosten, Herbert D. Kleber, and Charles Morgan

640 A Study of the Complement System in Psychiatric Patients
Baruch Spivak, Marguerite Radwan, Dror Elimelech, Yehuda Baruch, Gideon Avidan, and Samuel Tyano

643 Sensation-Seeking Scale Scores in Treated Geriatric Depressives and Controls
Robert C. Young, Robert C. Abrams, George S. Alexopoulos, and Richard Shindledecker

646 Altered Zinc Metabolism in Mood Disorder Patients
Karley Y. Little, Xavier Castellanos, Laurie L. Humphries, and Joan Austin

CORRESPONDENCE

649 CSF Amino Acid Concentrations; Lithium and Cholinometics; Age, Postdexamethasone Cortisol, and Depression: Correction

653 ERRATUM

Volume 26, Number 7, November 1989

EDITORIAL

655 Borderline Personality Disorder: A Research Challenge

ARTICLES

659 Corpus Callosum Dimensions Measured by Magnetic Resonance Imaging in Bipolar Affective Disorder and Schizophrenia
Peter Hauser, I. Deborah Dauphinais, Wade Berrettini, Lynn E. DeLisi, Joel Gelernter, and Robert M. Post

669 Accumulation of Diacylgylcerol in Platelet Phosphoinositide Turnover in Schizophrenia: A Biological Marker of Good Prognosis?
Hisanobu Kaiya, Akira Nishida, Atsushi Imai, Shigeru Nakashima, and Yoshinori Nozawa

677 Psychopathology and Plasma Cortisol Responses to Dexamethasone in Prepubertal Psychiatric Inpatients
Cynthia R. Pfeffer, Peter Stokes, Alan Weiner, Richard Shindledecker, Laura Faughnan, Marsha Mintz, Peter M. Stoll, and Eric Heiligenstein

690 Effect of Chronic Stress on ENU-Induced Tumors
Julio Sotelo, Guadalupe Palencia, Norma Rosas, and Rodolfo Perez

695 Seasonal Changes of Plasma Serotonin and Related Parameters: Correlation with Environmental Measures
M. J. Sarrias, F. Artigas, E. Martínez, and E. Gelpí

707 Effects of Imipramine on the Autonomic Responses of Obsessive-Compulsives to Auditory Tones
Michael J. Kozak, Michael Rossi, Paul R. McCarthy, and Edna B. Foa

COMMENT

717 Hyperfrontality of Regional Cerebral Blood Flow Distribution in Normals During Resting Wakefulness: Fact or Artifact?
Roy J. Mathew

CASE REPORT

725 Basal Ganglia Regional Glucose Metabolism Asymmetry During a Catatonic Episode
Daniel J. Luchins, John T. Metz, Robert C. Marks, and Malcolm D. Cooper

BRIEF REPORTS

729 Neuroanatomical Changes and Hypothalamo-Pituitary-Adrenal Axis Abnormalities
Vijaya P. Rao, K. Ranga Rama Krishnan, Veeraindar Goli, William B. Saunders, Everett H. Ellinwood, Jr., Dan G. Blazer, and Charles B. Nemeroff

733 The Effects of Sleep Deprivation and Sleep on Depressive Mood and Subjective Arousal
Rutger H. Van den Hoofdakker, Antoinette L. Bouhuys, and Domien G. M. Beersma

736 Thermal Load Alters Sleep
Colin M. Shapiro, Moira Allan, Helen Driver, and Duncan Mitchell

741 Choline Levels in Erythrocytes and Plasma: A Study of Species Variation
Bruce L. Miller, Donald J. Jenden, Diana Kraemer, Cathy Tang, and Paul Fu

744 Preliminary Evidence of Benzodiazepine Subsensitivity in Panic Disorder
Peter P. Roy-Byrne, Nancy Lewis, Enrique Villacres, Heidi Diem, David J. Greenblatt, Richard I. Shader, and Richard Veith

748 A Simple Method for Conversion of Area Ratio Measurements of Cerebral Structures to Volume Estimates
Bryan T. Woods and Steven Matthysse

753 Natural Killer Cell Activity in Depressive Illness: Preliminary Report
Ziad Kronfol, Madhavan Nair, Joann Goodson, Kavita Goel, Roger Haskett, and Stanley Schwartz

756 Ventricle-to-Brain Ratio in Schizophrenia: A Controlled Follow-up Study
Dargut Kemali, Mario Maj, Silvana Galderisi, Nicola Milici, and Antonio Salvati

Volume 26, Number 8, December 1989

EDITORIAL

761 Catatonia: A New Indication for Benzodiazepines?

ARTICLES

766 Auditory P300 Does Not Differentiate Borderline Personality Disorder from Schizotypal Personality Disorder
S. P. Kutcher, D. H. R. Blackwood, D. F. Gaskell, W. J. Muir, and D. M. St. Clair

775 Development of Water Dysregulation During Arieti's Third Stage of Schizophrenia?
W. V. R. Vieweg, L. S. Godleski, W. R. Pulliam, W. P. Schofield, G. B. Saathoff, P. L. Hundley, and G. R. Yank

781 Osteopenia, Pathological Fractures, and Increased Urinary Calcium Excretion in Schizophrenic Patients with Polydipsia
N. J. Delva, J. L. Crammer, S. V. Jarzylo, J. S. Lawson, J. A. Owen, M. Sribney, B. J. Weir, and E. R. Yendt

794 Circadian Variation of Platelet ^{3}H-Imipramine Binding, Platelet Serotonin Content, and Plasma Cortisol in Healthy Volunteers
Dolores Montero, David Ofori-Adjei, and Anna Wägner

805 The Effect of Antidepressants on Immune Function in Mice
Joel N. Eisen, Jill Irwin, Jackie Quay, and Shmuel Livnat

818 Learning Deficiencies in Borna Disease Virus-Infected but Clinically Healthy Rats
Winand Dittrich, Liv Bode, Hanns Ludwig, Moujahed Kao, and Klaus Schneider

829 Adrenocortical and Behavioral Responses to Repeated Stressors: Toward an Animal Model of Chronic Stress and Stress-Related Mental Illness
John E. Ottenweller, Benjamin H. Natelson, David L. Pitman, and Susan D. Drastal

COMMENT

842 Benzodiazepines and Catatonia: An Overview
Matthew A. Menza and Dale Harris

CORRESPONDENCE

847 Cocaine-Induced Delirium Versus Delusional Disorder; ECT Seizure Monitoring; Response; Methylene Blue Excretion in Depression; Headache in Schizophrenia and Seasonality of Births; Diazepam Loading for Alcohol Withdrawal: Seizure Risk in Epileptics; Lithium, Brain, and RBC NMR Parameter T-1; DST and Schizophrenic Symptomatology; Response

859 Announcement
860 Acknowledgment
864 Society of Biological Psychiatry: Call for Papers
865 Author Index to Volume 26
874 Subject Index to Volume 26
Volume Contents